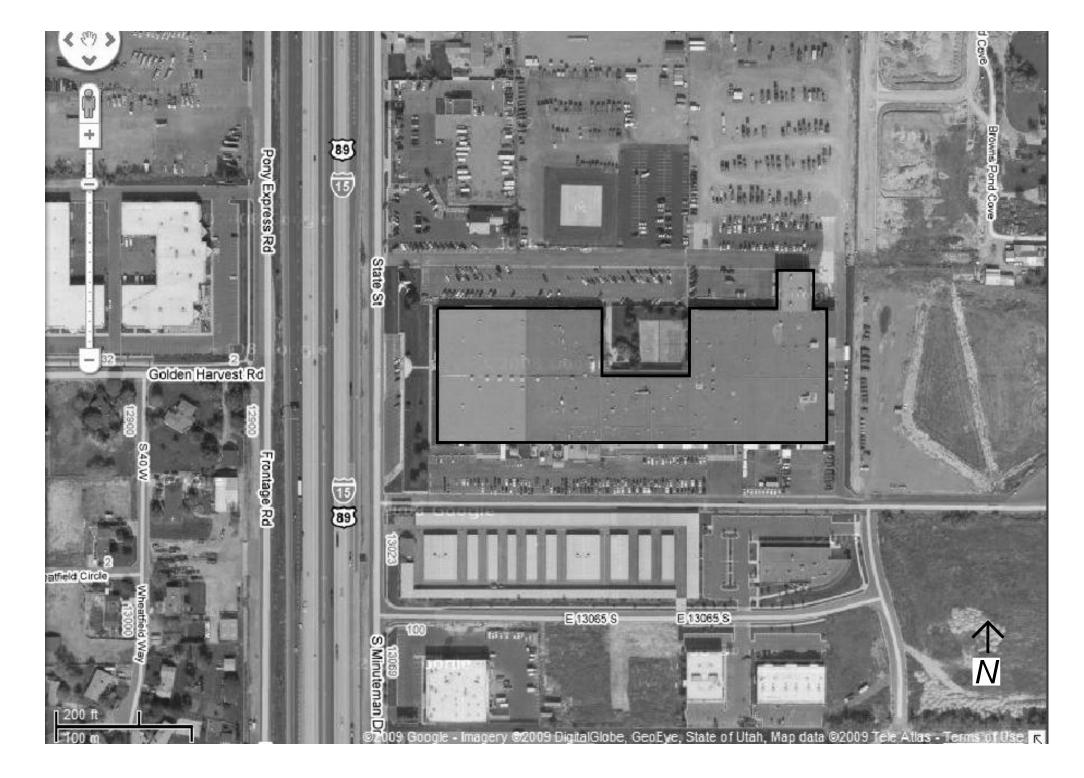
### CODE ANALYSIS

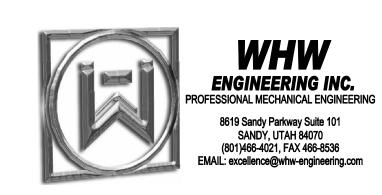
		APPLICA	BLE CODES	
lr Ir Ir	nternational Building Conternational Mechanica International Plumbing Conternational Fire Code International Energy	I Code200	6 National Electrical C 6 Uniform Code for 6 Building Conservation	
	Conservation Code	200		
A.				
	•		Mixed Occupancy: Yes _ h Rise, Covered Mall):	
B.	Seismic Design Cate	gory:	Design Wind Speed:	mph
C.	Type of Construction	,		
	$\frac{1}{A}$ $\frac{1}{B}$	<u>II</u> <u>II</u> В	$\frac{\mathbf{II}}{A}$ $\frac{\mathbf{III}}{B}$ $\frac{\mathbf{IV}}{HT}$	<u>V</u> A B
D.	separation distance (	(in hours):	ts for the Exterior Walls bas	ed on the fire
E.	Mixed Occupancies:	No	onseparated Uses:	
F:	Sprinklers:			
	Required:	Provided:	Type of Sprinkler Syster	n:
G:	Number of Stories:	Buildin	g Height:	
H:		, ,		
l:				
J:	Area Modifications: a) $A_a = A_t + \left[ \frac{A_t I_f}{100} \right]$	$\left[ \frac{A_t}{100} \right]$	$I_f = 100 \left[ \frac{F}{P} - 0 \right]$	$.25 \frac{W}{30}$
	L	J L J	L	]
	b) Sum of the Ratio		Mixed Occupancies:	
K.	d) Unlimited Area B	 A <sub>a</sub> (2) A <sub>a</sub> (3) Building: Yes _	No Code	
FI	ement	Hours Assembly	Element	Hours Assembly
	terior Bearing Walls	Listing	Floors - Ceiling Floors	Listing
Ex	erior Bearing Walls terior Non-Bearing Walls ructural Frame		Roofs - Ceiling Roofs Exterior Doors and Windows Shaft Enclosures	3
Pa	artitions - Permanent re Barriers		Fire Walls Fire Partitions	
			Smoke Partitions	
L.	Design Occupant Loa Exit Width Required:		Exit Width Provided:	_
M.		Required (m)	(f) Provided (n	
	c) Bath Tubs or Sho	owers:	(f) Provided (m) Service Sinks:	· (I)
FOC	OTNOTES:			
1)	In case of conflict with through <b>∑</b> - ADA Guide	elines and specif	nent of Justice Federal Regiciteriation in the second reference to the Internation restrictive requirement shall	nal Building
2)	<ul> <li>Official for Complex But</li> <li>a) High Rise Requires</li> <li>b) Atriums.</li> <li>c) Performance Base</li> <li>d) Means or Egresse</li> <li>e) Fire Assembly Long</li> <li>f) Exterior and Interpretation</li> </ul>	uildings. Including rements. sed Criteria. s Analysis. ocator Sheet. rior Accessibility I	Route.	e Building
	g) Fire Stopping, In	cluding Tested D	esign Number.	

# UTAH NATIONAL GUARD DRAPER HEADQUARTERS ROOFTOP UNIT ADDITION DFCM# 09019480

### DRAWING INDEX:

M001 - TITLE SHEET
MG001- MECHANICAL GENERAL NOTES AND LEGEND
ME101- MECHANICAL MEZZANINE PLAN
ME102- MECHANICAL ROOF PLAN
ME401- MECHANICAL SECTIONS
ME501- MECHANICAL DETAILS AND SCHEDULES







MECHANICAL ENGINEER
WHW ENGINEERING, INC.
8619 SANDY PARKWAY
SUITE 101
SANDY, UTAH 84075
PHONE: (801) 466-4021 FAX: (801) 466-8536

	l				U			_
				ME	CHANICAL LEGEND			
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	
		GENERAL TERMINOLOGY			AIR SIDE			
A		SECTION LETTER DESIGNATION	₩		EXISTING AIR DUCT TO BE REMOVED	<u> </u>		F
ME-1017		SECTION DRAWN ON THIS SHEET	<b>├ ├</b>		EXISTING AIR DUCT TO REMAIN	0		E
(A2)		DETAIL NUMBER DESIGNATION	$\mapsto$		NEW AIR DUCT	C		E
<b>A2</b>		CORRESPONDING WITH GRID LOCATION	₩ ₩		NEW SPIRAL DUCT	<del></del>		Т
1		MECHANICAL EQUIPMENT DESIGNATION	$\longrightarrow$		NEW MEDIUM PRESSURE DUCT	<del></del>		Т
AH		EQUIPMENT ITEM DESIGNATION	江草		RECT. TO RECT. AIR DUCT TAKE-OFF			E
CFM		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED	江草		RECT. TO RND. AIR DUCT TAKE-OFF			<u> </u>
D-1		BELOW	江草		RND. TO RND. AIR DUCT TAKE-OFF			
R-1		GRILLE, OR LOUVER DESIGNATION WHERE	\ <del>_</del> \ <del>_</del> \ <del>_</del> \ <del>_</del> \		RECT. TAKE-OFF AT END OF MAIN			
		BALANCING NOT REQUIRED	<i>I</i>		MEDIUM PRESSURE TAKE-OFF			
$\triangle$		REVISION DESIGNATOR AND NUMBER	~> @		FLEXIBLE AIR DUCT			
1		KEY NOTE DESIGNATOR AND NUMBER			LINED DUCT			
	POC	POINT OF CONNECTION			VANED ELBOW			
	POR	POINT OF REMOVAL	<u> </u>		RADIUS ELBOW			
AFF		ABOVE FINISHED FLOOR			CONCENTRIC DUCT TRANSITION			
AP		ACCESS PANEL	<u> </u>		ECCENTRIC DUCT TRANSITION			
မူ EL.		CENTER LINE ELEVATION			FLEXIBLE AIR DUCT CONNECTION			
NV. ELEV.		INVERT ELEVATION	₩ VD		VOLUME DAMPER			
GC		GENERAL CONTRACTOR			SUPPLY AIR DIFFUSER			
МС		MECHANICAL CONTRACTOR			RETURN AIR, FRESH AIR, AND TRANSFER AIR			
ATC		CONTROL CONTRACTOR			CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE			
EC		ELECTRICAL CONTRACTOR			RETURN OR OUTSIDE AIR DUCT UP			
FPC		FIRE PROTECTION CONTROL			SUPPLY DUCT UP			
NIC		NOT IN CONTRACT			EXHAUST AIR INTAKE UP			
NTS		NOT TO SCALE			RETURN OR OUTSIDE AIR DUCT DOWN			
VCP		VITRIFIED CLAY PIPE			SUPPLY DUCT DOWN			
С		COMMON			EXHAUST DUCT DOWN			
NC		NORMALLY CLOSED	<b>→ 10</b>		ROUND DUCT UP			
NO		NORMALLY OPEN	₩ <b>11110</b>		LOWER DUCT DOWN			
			R/		RAISE DUCT UP			
					LOWER DUCT DOWN			
					FLEXIBLE DUCT CONNECTION			
					PARALLEL BLADE DAMPER			
					OPPOSED BLADE DAMPER			
					HUMIDIFIER			
					AIRFLOW MEASURING STATION			
					FILTER BANK			
					COIL			
				AP	ACCESS PANEL			
					EXISTING EQUIPMENT TO BE REMOVED			
					EXISTING EQUIPMENT TO REMAIN			
					NEW EQUIPMENT			
			A	BD	AUTOMATIC BACKDRAFT DAMPER			
			(F)—	FS	FIRE & SMOKE DAMPER			
			T) RTU-1	T-STAT	WALL MOUNTED THERMOSTAT MECHANICAL EQUIPMENT CONTROLLED			
			SA		SUPPLY AIR			
			RA		RETURN AIR			
			EA		EXHAUST AIR			
			OA		OUTSIDE AIR			
			MA		MIXED AIR			
			FA		FRESH AIR			
			RF		RELIEF AIR			

**GENERAL NOTES:** 

**DESCRIPTION** 

WET SIDE CONT

EXISTING PIPING TO REMAIN

PITCH DOWN

ELBOW DOWN

**ELBOW UP** 

TEE DOWN

**NEW PIPING** 

TEE UP

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-11 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-12 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-13 C.F.M. LISTED IS ACTUAL AIR.

G-14 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

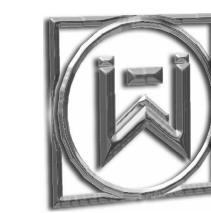
G-15 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-16 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-17 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE

G-18 ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

G-19 THIS CONTRACTOR SHALL HIRE A LICENSED DESIGN BUILD ELECTRICIAN TO CONNECT NEW EQUIPMENT TO EXISTING POWER. ELECTRICAL WORK AND CONNECTIONS TO NEW EQUIPMENT SHALL MATCH ELECTRICAL WORK TO EXISTING EQUIPMENT ON SITE. ALL ELECTRICAL WORK SHALL COMPLY WITH 2008 NEC, AS WELL AS UTAH NATIONAL GUARD, AND DFCM DESIGN AND CONSTRUCTION STANDARDS.



### **ENGINEERING INC.** PROFESSIONAL MECHANICAL ENGINEERING

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PROJECT NAME & ADDRESS

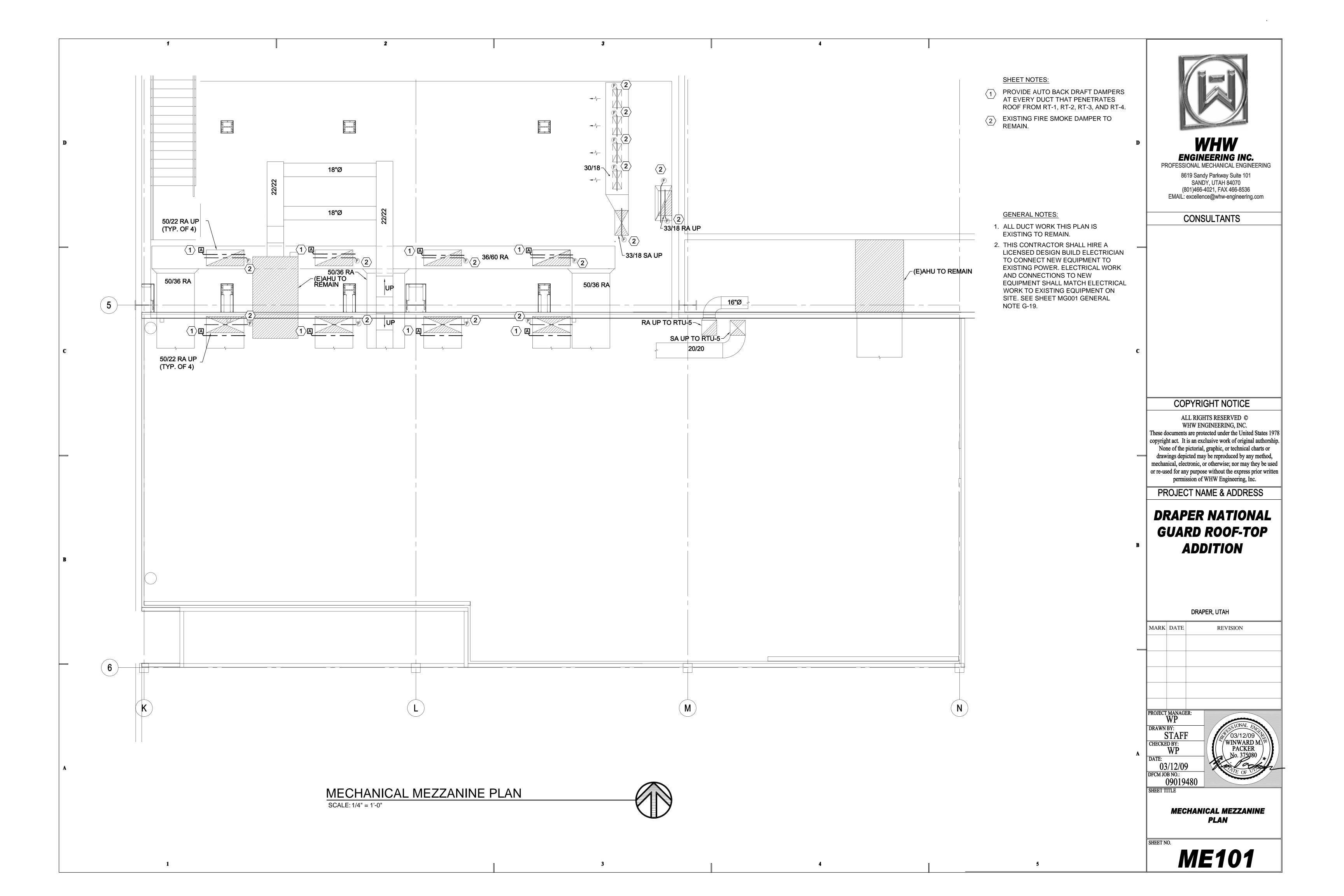
### DRAPER NATIONAL **GUARD ROOF-TOP ADDITION**

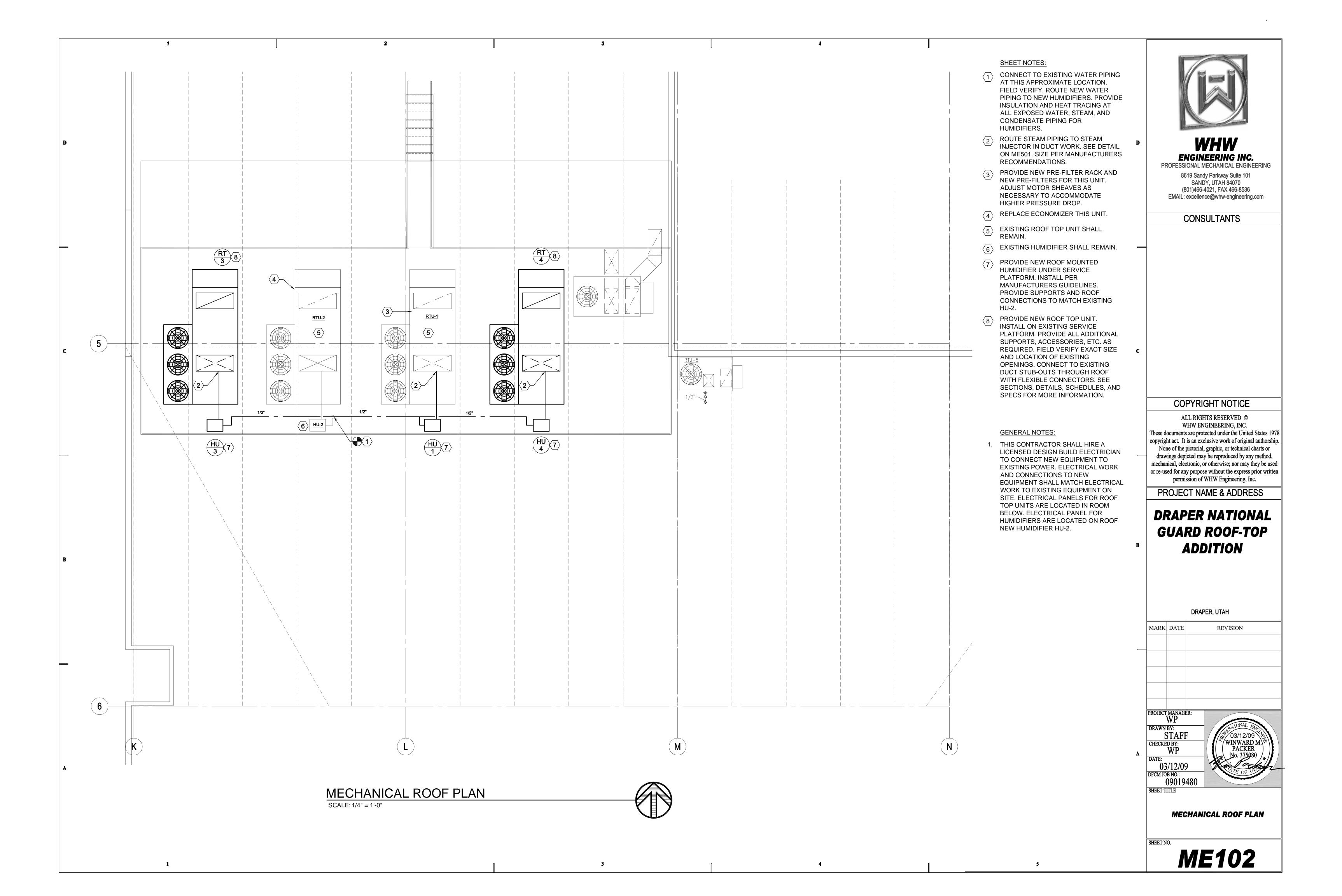
DRAPER, UTAH

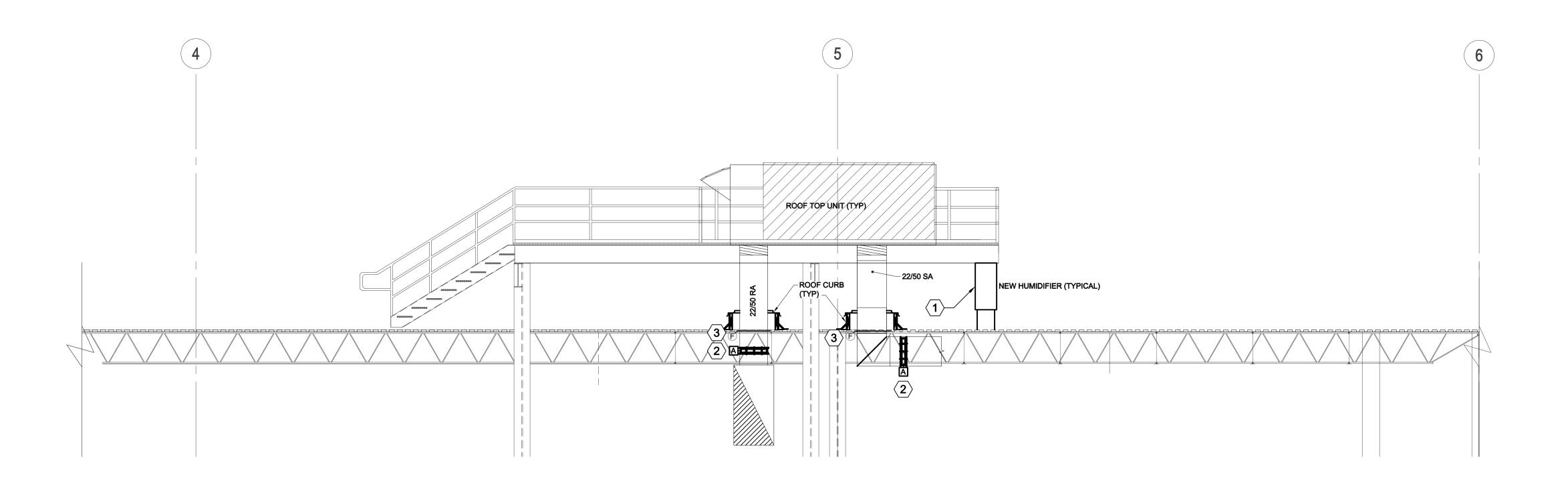
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MECHANICAL GENERAL NOTES AND LEGEND

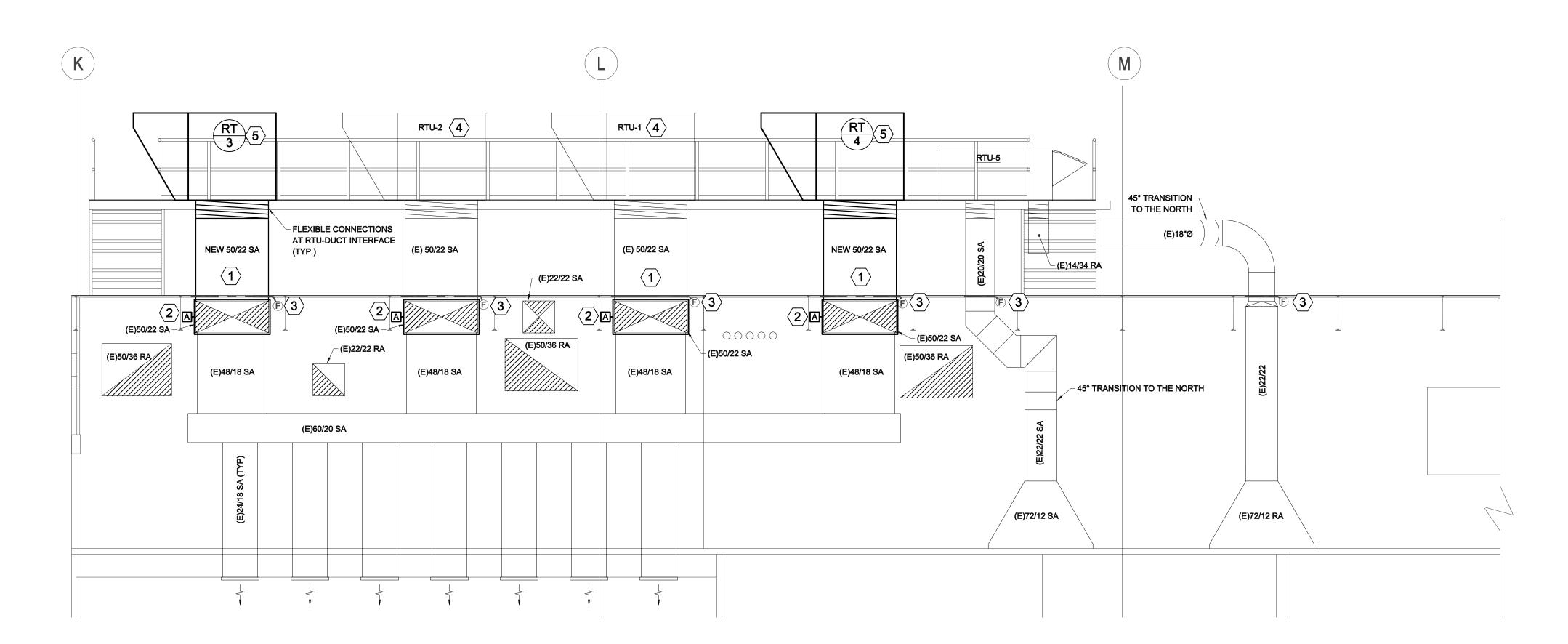
**MG001** 







## MECHANICAL ROOF PLAN SECTION SCALE: 1/4" = 1'-0"



MECHANICAL SECTION

SCALE: 1/4" = 1'-0"

### SHEET NOTES:

- SEE SHEET ME501 FOR HUMIDIFIER PIPING DETAIL.
- PROVIDE AUTO BACK DRAFT DAMPERS
  AT EVERY DUCT THAT PENETRATES
  ROOF FROM RT-1, RT-2, RT-3, AND RT-4.
- (3) EXISTING FIRE SMOKE DAMPER TO REMAIN.
- EXISTING ROOF TOP UNITS RTU-1 AND RTU-2 SHALL REMAIN. MAKE REPAIRS AS NOTED ON SHEET ME101.
- 5 PROVIDE NEW ROOF TOP UNITS.

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### **GENERAL NOTES:**

- PROVIDE ALL WATER, STEAM AND CONDENSATE PIPING WITH INSULATION.
- PROVIDE ALL WATER AND CONDENSATE PIPING WITH HEAT TRACE.
- 3. THIS CONTRACTOR SHALL HIRE A
  LICENSED DESIGN BUILD ELECTRICIAN
  TO CONNECT NEW EQUIPMENT TO
  EXISTING POWER. ELECTRICAL WORK
  AND CONNECTIONS TO NEW
  EQUIPMENT SHALL MATCH ELECTRICAL
  WORK TO EXISTING EQUIPMENT ON
  SITE.

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PROJECT NAME & ADDRESS

# DRAPER NATIONAL GUARD ROOF-TOP ADDITION

DRAPER, UTAH

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,	WP	SK.		O CO	IAI		
DRAWN	BY: STAFI	<u> </u>		\$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100	12/09		
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**MECHANICAL SECTIONS** 

SHEET NO.

**ME401** 

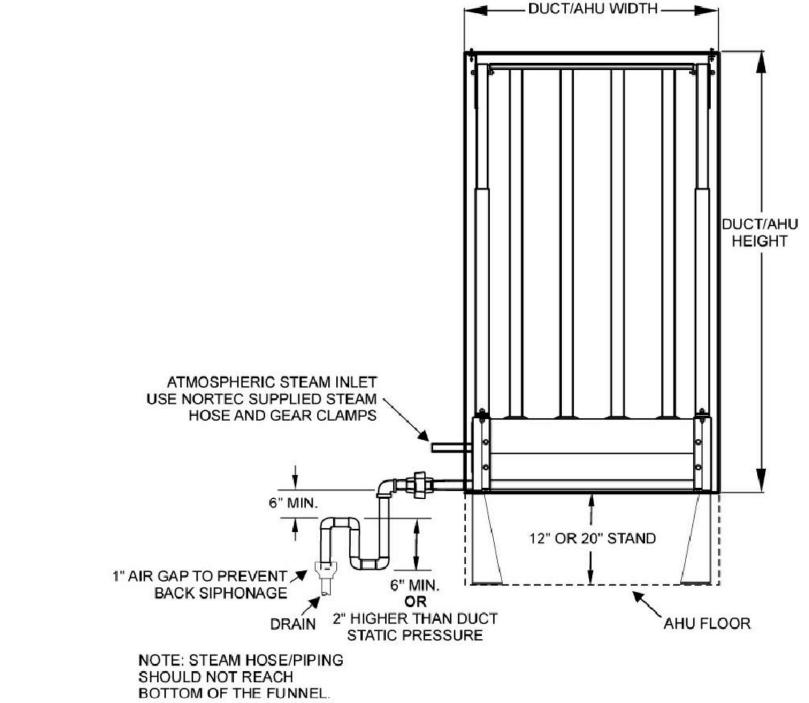
	ROOFTOP AIR CONDITIONER SCHEDULE (GAS HEAT)																	
				E.S.P./	HEATING		COOLING				ELECTRIC	CAL				EED @	OPER.	SCHEDIII E
SYMBOL	MANUFACTURER & MODEL NUMBER	NUFACTURER & MODEL NUMBER SA CFM	OSA CFM	T.S.P. IN W.G.	TOT. MIN. INPUT MBH	AMB. AIR (DB)	AMB. AIR (WB)	MIN. TOTAL MBH	V - Ø - Hz	COMPRESSOR #	COMPRESSOR TOTAL RLA	EVAP BLOWER HP	POWER EXHAUST HP	MCA	МОСР	EER @ ARI	WT. (LBS)	SCHEDULE NOTES
RT 1	AAON RM-030-3-0-AB02-000 SERIAL: 200701-AMCT04023		EXISTING															
RT 2	AAON RM-030-3-0-AB02-000 SERIAL: 200805-AMCT06024		EXISTING															
RT 3	AAON RN-030-3-0-AA02-000:CFGE-E0B-DEL-C0C-SB0ADB0-00-0000000B	10500	3150	1.75 / 3.82	N/A	95	65	314	460/3/60	2	21.8	15	3 HP x 2	87	100	10.6	3100	1,2,3,4,5
RT 4	AAON RN-030-3-0-AA02-000:CFGE-E0B-DEL-C0C-SB0ADB0-00-0000000B	10500	3150	1.75 / 3.82	N/A	95	65	314	460/3/60	2	21.8	15	3 HP x 2	87	100	10.6	3100	1,2,3,4,5

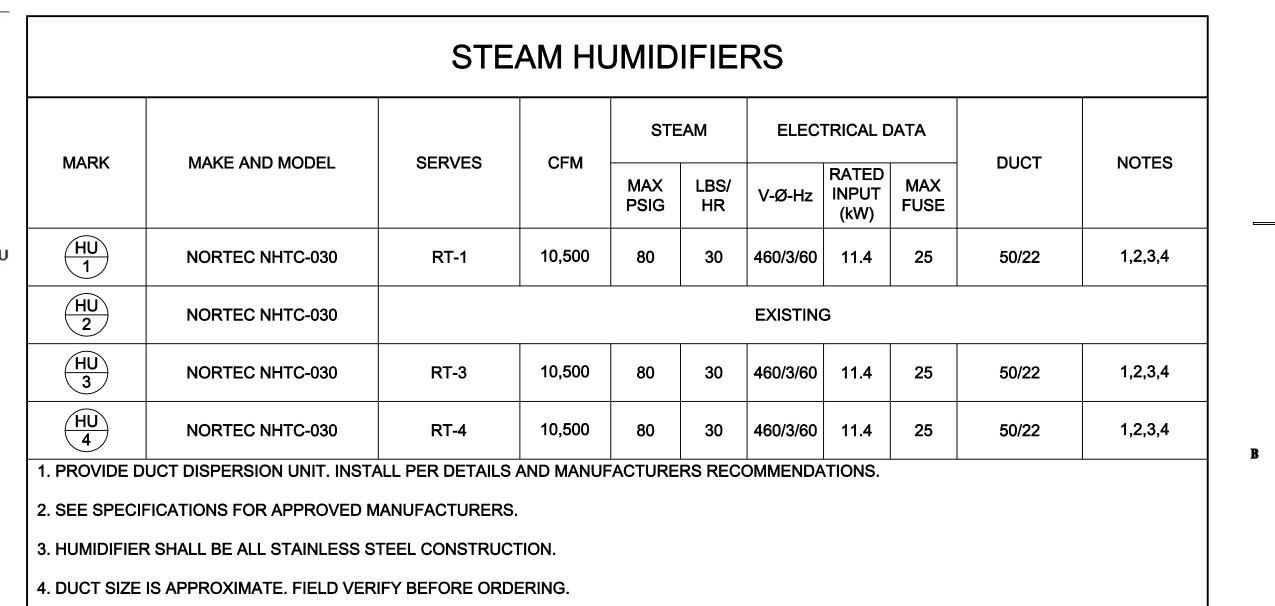
- 1. E.S.P. DOES NOT INCLUDE LOSSES THROUGH ACCESSORIES.
- 2. RATED MINIMUM INPUT AT SEA LEVEL.
- 3. PROVIDE ONE 15 AMP, 120 VOLT, DUPLEX GFCI SERVICE OUTLET. FACTORY INSTALLED, FIELD WIRED.

NO SCALE

- 4. BELT DRIVE UNIT
- 5. PROVIDE SMOKE DETECTOR IN SUPPLY AND RETURN.
- 6. PROVIDE WITH 30% PRE-FILTERS, AND 98% EFFICIENT POST FILTER SECTION. PROVIDE WITH FILTER GAUGE, AND TIE INTO EXISTING BUILDING CONTROLS SYSTEM BY UTAH CONTROLS FOR MONITORING.
- 7. PROVIDE ALL CONTROLS AND ACCESSORIES AS NEEDED TO TIE INTO EXISTING BUILDING CONTROLS SYSTEM BY UTAH CONTROLS. INCLUDE A MINIMUM OF 1 NEW CONTROL BOARD WITH EXPANDED CAPACITY.

3





5. HUMIDIFIERS AND ASSOCIATED SUPPLY AND DRAIN LINES SHALL BE TIED INTO EXISTING BUILDING CONTROLS SYSTEM BY UTAH CONTROLS.

NO SCALE

RTU DUCT CONNECTION ABOVE FLEX DUCT
CONNECTION TO ROOF TOP UNIT ∕RA DUCT ✓SLEEVE DUCT AROUND \_\_LINER BEAM AND SEAL

BEAM THROUGH DUCT PENETRATION DETAIL

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PROJECT NAME & ADDRESS

DRAPER NATIONAL **GUARD ROOF-TOP ADDITION** 

DRAPER, UTAH

MARK	DATE		REV	ISION		
PROJECT	MANAGI	ER:				
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